

Technical Data Sheet

Texol Monosyn™ S-EP Series

Proven performance, high temperature synthetic gas and steam turbine lubricants

Product Description

Texol Monosyn™ S-EP is an high performance, high temperature synthetic gas and steam turbine lubricant formulated with TFAS (Texol Fluid Additive System) base stocks and premium performance designed to give reliable, long service protection at sustained high temperatures.

Customer benefits

- Very high temperature oxidation stability (up to +100°C bulk oil temperature and +380°C bearing housing temperature)
- Protects valves and bearings from sludge and acidic by-products of oxidation
- Long-term wear protection extends turbine service life, improving operating economics
- Rapid water separation
- Fast air release and good foam suppression protects turbine bearings
- Multi-purpose turbine and compressor applications reduce inventories

Applications

- Texol Monosyn™ S-EP is recommended for all types of industrial gas and steam turbines, with and without gearboxes operating at high temperatures
- Texol Monosyn™ S-EP is also widely used in combined cycle installations
- Texol Monosyn™ S-EP is recommended for the lubrication of a wide range of equipment associated with turbines. This includes air compressors, bath and circulating systems supplying bearings of all types, lightly to moderately loaded gear sets, pumps, electric motors and low to moderate pressure hydraulic systems.

Specifications

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|------------------------------------|---|
| • Texol Monosyn™ S-EP 32/46/68/150 | meets DIN 51515/T1 L-TD and L-TG |
| • Texol Monosyn™ S-EP 32/46/68/150 | meets ISO 8068 (type L-TSE and L-TGE) |
| • Texol Monosyn™ S-EP 32/46/68/150 | meets BS 489 |
| • Texol Monosyn™ S-EP 32/46/68/150 | meets ASTM D4304 |
| • Texol Monosyn™ S-EP 32 | meets General Electric GEK 27070 for use in steam turbines |
| • Texol Monosyn™ S-EP 32/46 | meets ABB Stal 81 21 01 till 81 21 09 specifications |
| • Texol Monosyn™ S-EP 46 | meets MAN TURBO TQL-T2 |
| • Texol Monosyn™ S-EP 32/46 | meets Siemens Industrial Turbo Machinery MAT 812101- 812109 |
| • Texol Monosyn™ S-EP 32/46 | meets Siemens TLV 9013 04 |
| • Texol Monosyn™ S-EP 05/10/15 | meets MIL-PRF-7870D |
| • Texol Monosyn™ S-EP 05/10/15 | meets NATO Code O-142 |

TEXOL

Chemical

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Typical Properties

Property (Unit)	S-EP 05	S-EP 10	S-EP 15	S-EP 22	Method
Density at +15 °C	870	885	892	899	DIN 51757
Viscosity @40°C, cSt	05	10	15	22	DIN 51550
Viscosity @100°C, cSt	1.65	2.70	3.97	4.72	DIN 51550
ISO Viscosity Grade	05	10	15	22	DIN 51519
Viscosity Index	148	152	160	165	DIN ISO 2909
Flash Point, °C	202	205	212	220	DIN ISO 2592
Pour Point, °C	-60	-58	-55	-49	DIN ISO 3016
Four ball weld load, N	1000	1000	1000	1200	DIN 51350-02
Cu Corrosion, 3h, 100°C		1A			ASTM D130
FZG test (A/8.3/90)		>10			DIN 51354

Property (Unit)	S-EP 32	S-EP 46	S-EP 68	S-EP 150	Method
Density at +15 °C	961	962	967	989	DIN 51757
Viscosity @40°C, cSt	32	46	68	150	DIN 51550
Viscosity @100°C, cSt	5.5	7.20	9.07	14.2	DIN 51550
ISO Viscosity Grade	32	46	68	150	DIN 51519
Viscosity Index	174	177	185	193	DIN ISO 2909
Flash Point, °C	222	235	232	285	DIN ISO 2592
Pour Point, °C	-45	-45	-38	-32	DIN ISO 3016
Four ball weld load, N	1200	1200	1200	1500	DIN 51350-02
Cu Corrosion, 3h, 100°C		1A			ASTM D130
FZG test (A/8.3/90)		>10			DIN 51354

Technical Expertise

Texol experts on Monosyn™ S-EP series are regionally located to respond to your needs. Whether you have a question about products, applications or regulations, Texol offers comprehensive customer and technical service.

Product Stewardship

Texol encourages its customers and potential users to review their applications from the standpoint of human health and environmental aspects. To help ensure that Texol products are not used in ways for which they are not intended or tested, Texol personnel will assist customers in dealing with environmental and product safety considerations. Texol literature, including Material Safety Data Sheets (MSDS), should be consulted prior to the use. MSDS are updated regularly, therefore, please request and review the most current MSDS before handling or using any product. MSDS are available from the nearest Texol sales office.